C++ ASSIGNMENT

1.Ques :Count the number of triplets whose sum is equal to the given value x.

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Ans: #include <i ostream >
using namespace std;
int main(){
     int n;
     cout<<"enter array size: ";
     cin>>n;
     int arr[n];
     for(int i=0;i<n;i++){
          cin>>arr[i];
     int target;
     cout<<"enter target: ";
     cin>>target;
     int count=0;
     for(int i=0;i<n;i++){
          for(int j=i+1;j<n;j++){
                for(int k=j+1;k<n;k++){
                     if(arr[i]+arr[j]+arr[k]==target){
                          count++;
                }
     cout < count;
     return 0;
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}
2.Ques: Find the factorial of a large number.
Ans: #include <iostream>
using namespace std;
int multiply(int size,int arr[],int n){
     int carry=0;
     for(int i=0;i<size;i++){</pre>
          int product=arr[i]*n+carry;
          arr[i]=product%10;
          carry=product/10;
     while(carry){
          arr[size]=carry%10;
          carry/=10;
          size++;
     return size;
int main(){
     int n;
     cout<<"enter number: ";
     cin>>n;
     int size=1,res[500];
     res[0]=1;
     for(int i=2;i<=n;i++){
          size=multiply(size,res,i);
     for(int i=size-1;i>=0;i--){
          cout<<res[i];
     }
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return 0;
}
3.Ques :Find the first non-repeating element in the array .
Ans: #include <iostream>
using namespace std;
int main() {
     int arr[5]=\{1,1,2,4,7\};
     int n=5;
     for (int i = 0; i < n; i++) {
     int j;
     // Checking if ith element is present in array
     for (j = 0; j < n; j++)
     if (i!=j\&\& arr[i] == arr[j])break;
     if (j == n)
     cout<<arr[i];
     return 0;
     return 0;
4.Ques: Move all zeros to the end of the array.
Ans: #include<iostream>
using namespace std;
int main(){
     int n;
     cout<<"enter array size: ";
     cin>>n;
     int a[n];
     for(int i=0;i<n;i++){
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cin>>a[i];
}
int j=0;
for(int i=0;i<n;i++){
    if(a[i]!=0){
        int temp=a[i];
        a[i]=a[j];
        a[j]=temp;
        j++;
    }
}
for(int i=0;i<n;i++){
        cout<<a[i];
}
return 0;
}</pre>
```